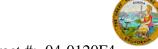
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 1.28

WELDING INSPECTION REPORT

Resident Engineer: Casey, William **Report No:** WIR-029004 Address: 333 Burma Road **Date Inspected:** 16-Jan-2013

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1730 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: American Bridge/Fluor Enterprises, a JV **Location:** Job Site

CWI Name: William Sherwood **CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A **Qualified Welders:** Yes No N/A **Verified Joint Fit-up:** Yes No N/A N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes N/A **Delayed / Cancelled:** No

34-0006 **Bridge No: Component: SAS** Tower

Summary of Items Observed:

Caltrans Office of Structural Material (OSM) Quality Assurance Inspector (QAI) Joselito Lizardo was present at the Self Anchored Suspension (SAS) job site as requested to perform observations on the welding of components for the San Francisco Oakland Bay Bridge (SFOBB) Project.

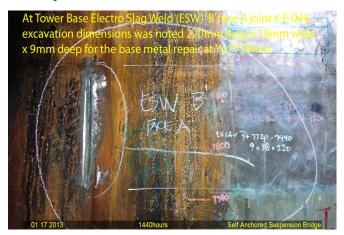
At Tower Base Electro Slag Weld (ESW) 'N' weld joint #N-041 face A, ABF welder Chris Bruce was observed performing the welding repair on the weld cover pass on previously welded ESW from Y=5460mm to Y=5660mm due to UT reject. The welder was noted utilizing Shielded Metal Arc Welding (SMAW) with 1/8" diameter E7018H4R electrode implementing ABF-WPS-D15-1000 Repair Rev. 3. The welder excavated the defect using carbon air arc gouging then ground smooth the groove of the excavation. Prior to the excavation, the welder was noted preheating the repair area to 350°F using a combination of propylene gas torch and Miller Proheat 35 Induction Heating System with the heating blanket placed on the outside. After the excavation, ABF QC Steve Jensen performed the Magnetic Particle Testing (MT) of the excavation with the dimensions of 200mm long x 55mm wide x 37mm deep with no relevant indications noted. This QA performed the same test (MT) and found same result. This weld repair was performed per Request for Weld Repair (RWR) #201301-022. During the shift, ABF QC William Sherwood was noted monitoring the welding parameters and workmanship of the repair being welded. Before the end of the shift, the repair welding and the Post Weld Heat Treatment (PWHT)at this location was completed.

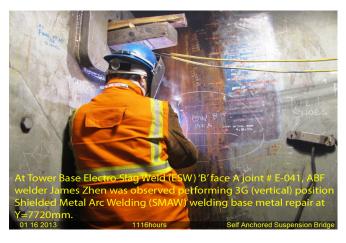
At Tower Base Electro Slag Weld (ESW) 'B' weld joint #E-044 face A, ABF welder James Zhen was observed performing the welding repair on the base metal from Y=7720mm to Y=7940mm due to MT reject. The welder was noted utilizing Shielded Metal Arc Welding (SMAW) with 1/8" diameter E7018H4R electrode implementing

WELDING INSPECTION REPORT

(Continued Page 2 of 2)

ABF-WPS-D15-1000 Repair Rev. 3. The welder excavated the defect using disc and die grinder. Prior to excavate, the welder was noted preheating the repair area to more than 350°F using propylene gas torch. After the excavation, ABF QC Steve Jensen performed the Magnetic Particle Testing (MT)of the excavation with the following dimensions: 220mm long x 18mm wide x 9mm deep with no relevant indications noted. This QA performed the same test (MT) and found same result. This weld repair was performed per Request for Weld Repair (RWR) #201301-019. During the shift, ABF QC William Sherwood was noted monitoring the welding parameters and workmanship of the repair being welded. At the end of the shift, welding repair at location mentioned above was completed.









Summary of Conversations:

No significant conversation occurred today.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact SMR Gary Thomas (916) 764-6027, who represents the Office of Structural Materials for your project.

Inspected By:	Lizardo, Joselito	Quality Assurance Inspector
Reviewed By:	Reyes,Danny	QA Reviewer